

ABSTRACT

An image pickup apparatus capable of performing dynamic assignment of an output image in a dynamic range according
5 to a subject.

The image pickup apparatus includes an image pickup device (131) for picking up an image of a subject, a signal processing section (133) for generating a composite image having a relatively wider dynamic range than at least either
10 of the dynamic ranges of a long-time exposure image picked up with a relatively long exposure time by the image pickup device and a short-time exposure image picked up with a relatively short exposure time by the image pickup device, by synthesizing the long-time exposure image and the
15 short-time exposure image, and a control section (137) for compressing the composite image and dynamically varies the assignment proportion of a high luminance dynamic range to a low-middle luminance dynamic range in a dynamic range of an output image to be outputted as a video signal.

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